DEVOPS-DAY-2

DOCKER:

Docker is a platform that provides virtual containers on which an application can be deployed independent of the underlying OS of the server. Further the container can be created from a replica called docker image which contains all the dependencies and can run on any OS that has docker engine, with similar results

DOCKER INSTALLATION:

-> sudo apt install docker.io -y
-> sudo service docker restart
-> sudo service docker status
-> sudo usermod =aG docker $USER //PERMISSION
-> docker images
-> docker ps
-> sudo chmod 666 /var/run/docker.sock

MAVEN INSTALLATION:

```
sudo apt update -y

sudo apt install maven -y

mvn -version
```

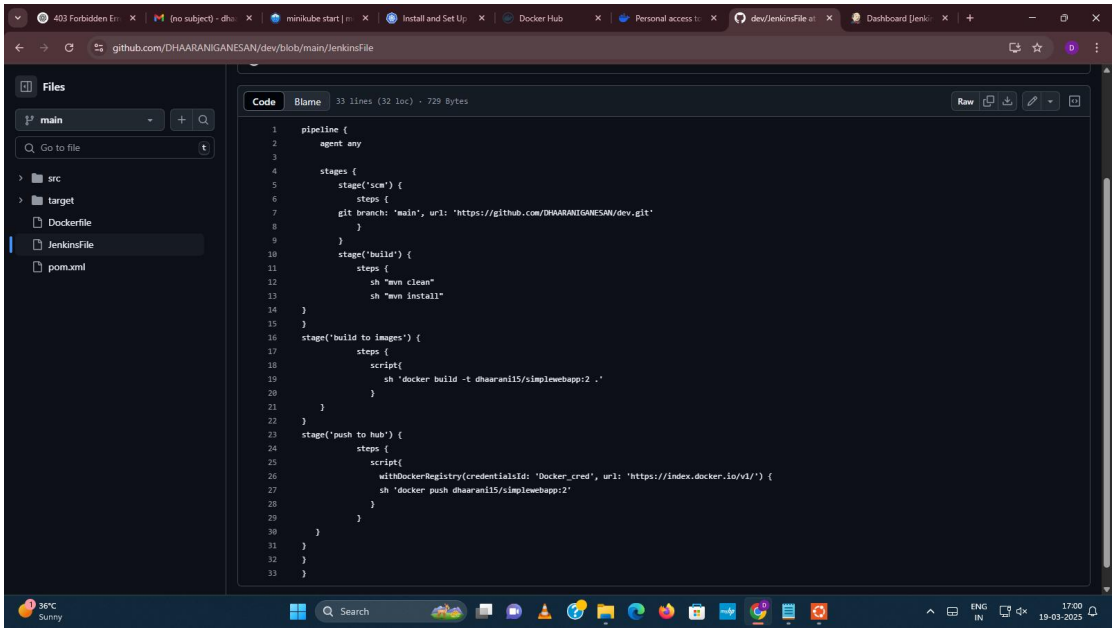
JENKINS

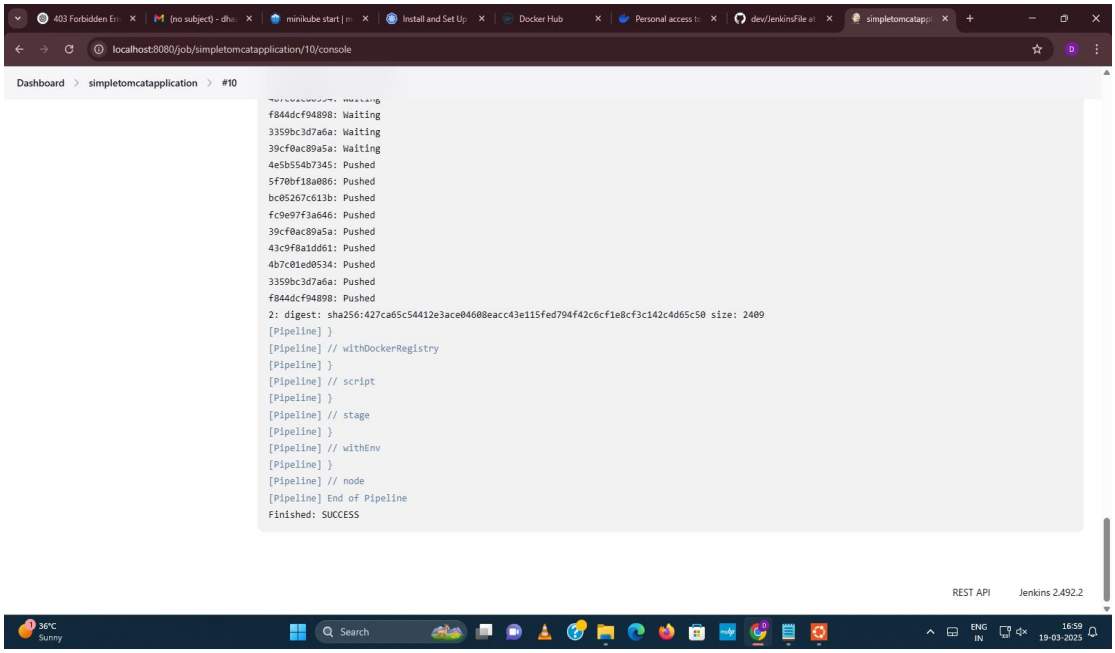
Jenkins is an open-source automation tool written in Java programming language that allows continuous integration. Jenkins offers a straightforward way to set up a continuous integration or continuous delivery environment for almost any combination of languages and source code repositories using pipelines, as well as automating other routine development tasks.

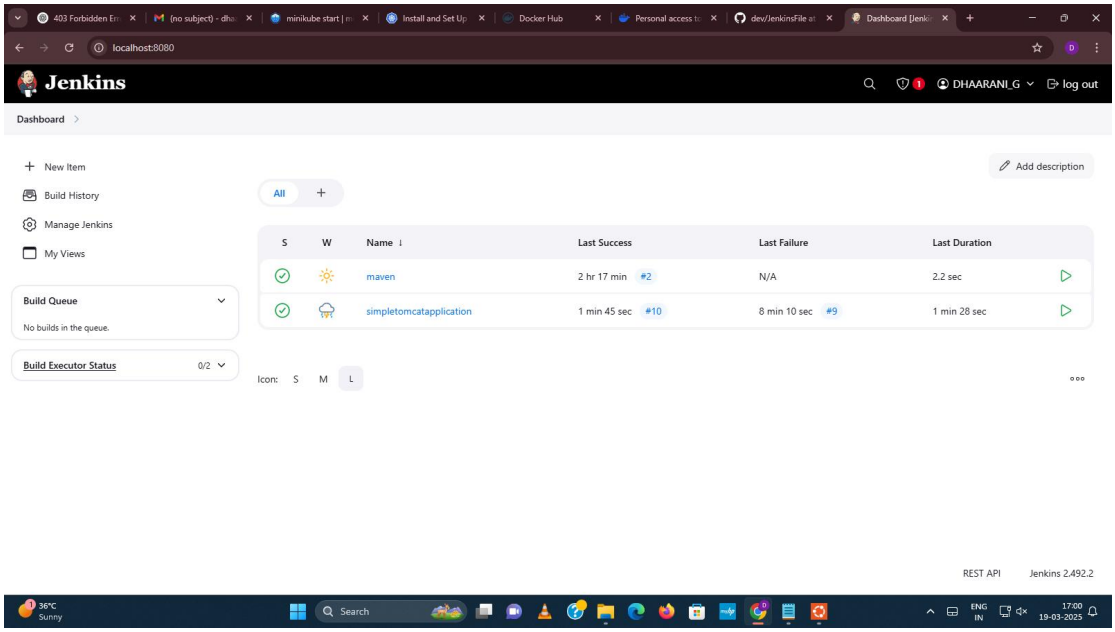
The following are the main or most popular Jenkins use cases:

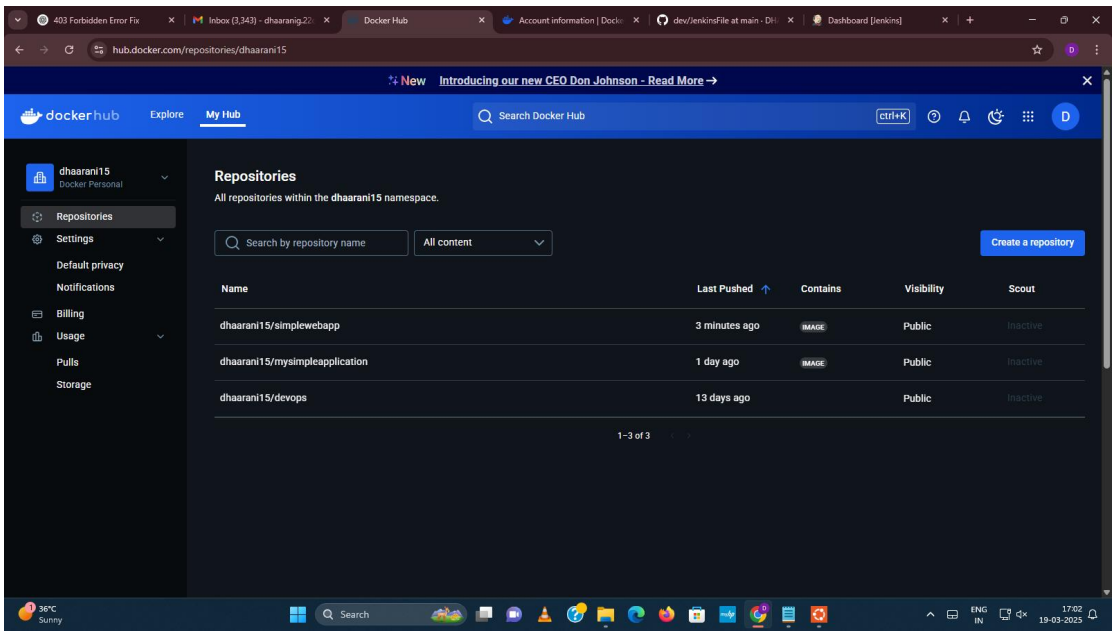
- Continuous Integration: With Jenkins pipelines, we can achieve CI for both applications and infrastructure as code.
- Continuous Delivery: You can set up well-defined and automated application delivery workflows with Jenkins pipelines.

Jenkins achieves CI (Continuous Integration) and CD (Continuous Deployment) with the help of plugins. Plugins are used to allow the integration of various DevOps stages. If you want to integrate a particular tool, you must install the plugins for that tool.

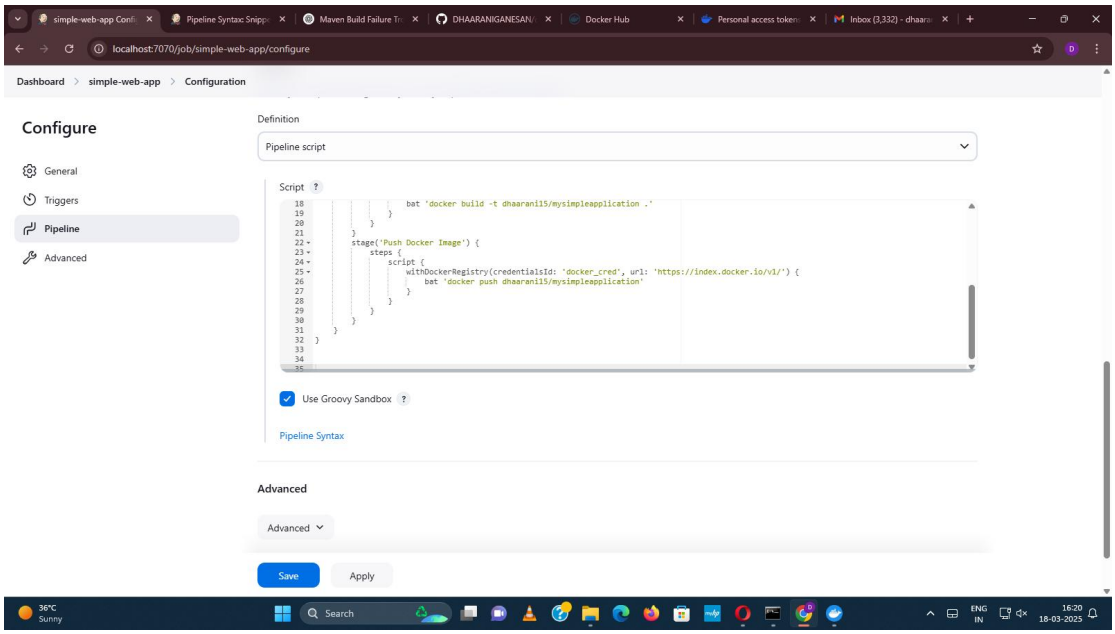


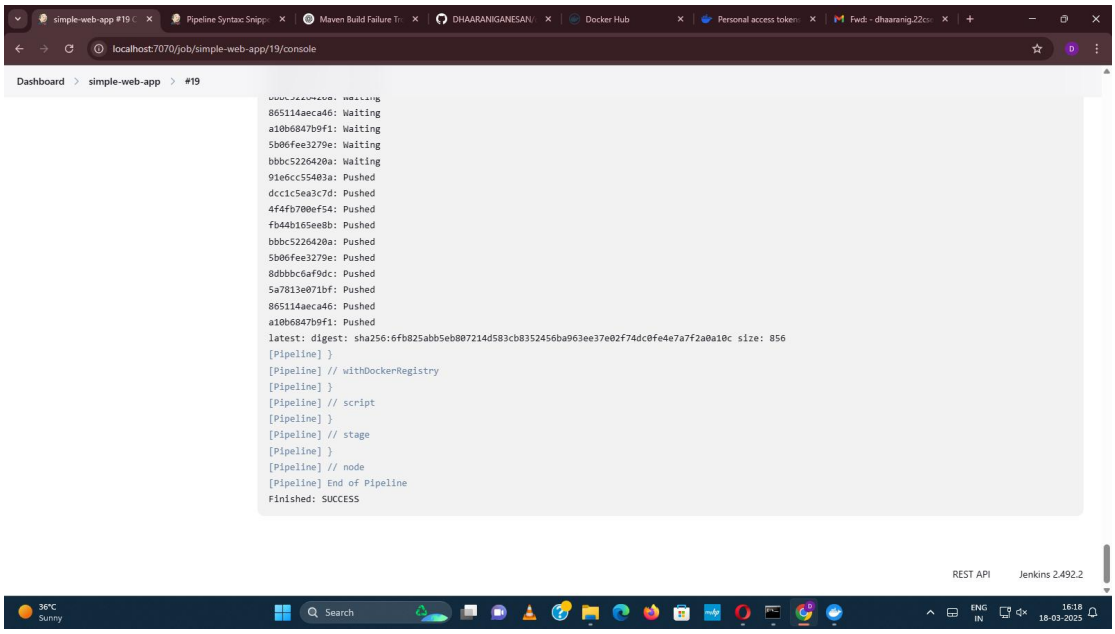


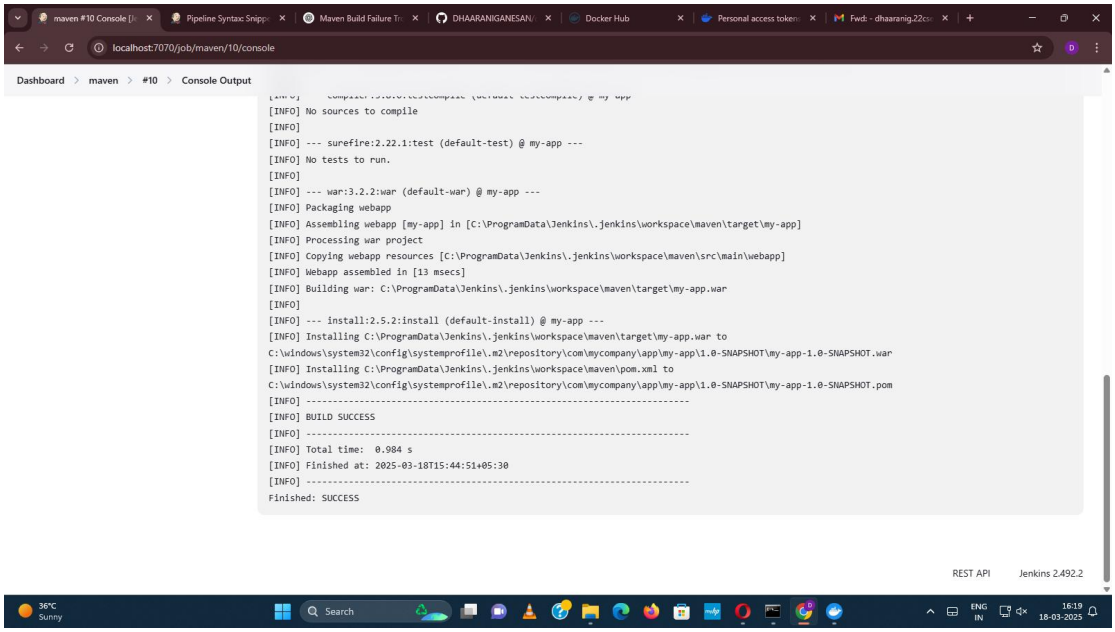

Jenkins
DHAARANI_G
log out
Dashboard
New Item
Build History
Manage Jenkins
My Views
Add description
All
S
W
Name
Last Success
Last Failure
Last Duration
maven
2 hr 17 min #2
N/A
2.2 sec
simpletomcatapplication
1 min 45 sec #10
8 min 10 sec #9
1 min 28 sec
Build Queue
No builds in the queue.
Build Executor Status
0/2
Icon: S M L
REST API
Jenkins 2.492.2


New Introducing our new CEO Don Johnson - Read More
dockerhub
Explore
My Hub
Search Docker Hub
ctrl+K
dhaarani15
Docker Personal
Repositories
Settings
Default privacy
Notifications
Billing
Usage
Pulls
Storage
Repositories
All repositories within the dhaarani15 namespace.
Search by repository name
All content
Create a repository
Name
Last Pushed
Contains
Visibility
Scout
dhaarani15/simplewebapp
3 minutes ago
IMAGE
Public
Inactive
dhaarani15/mysimpleapplication
1 day ago
IMAGE
Public
Inactive
dhaarani15/devops
13 days ago
Public
Inactive
1–3 of 3

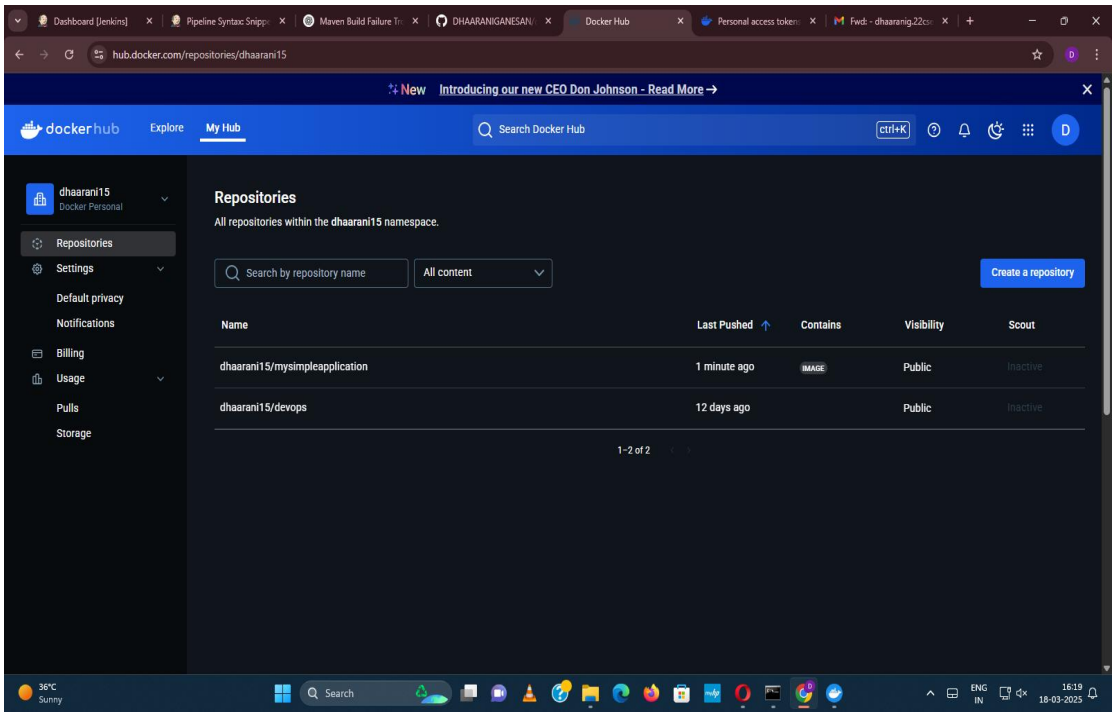
PIPELINE SCRIPT:

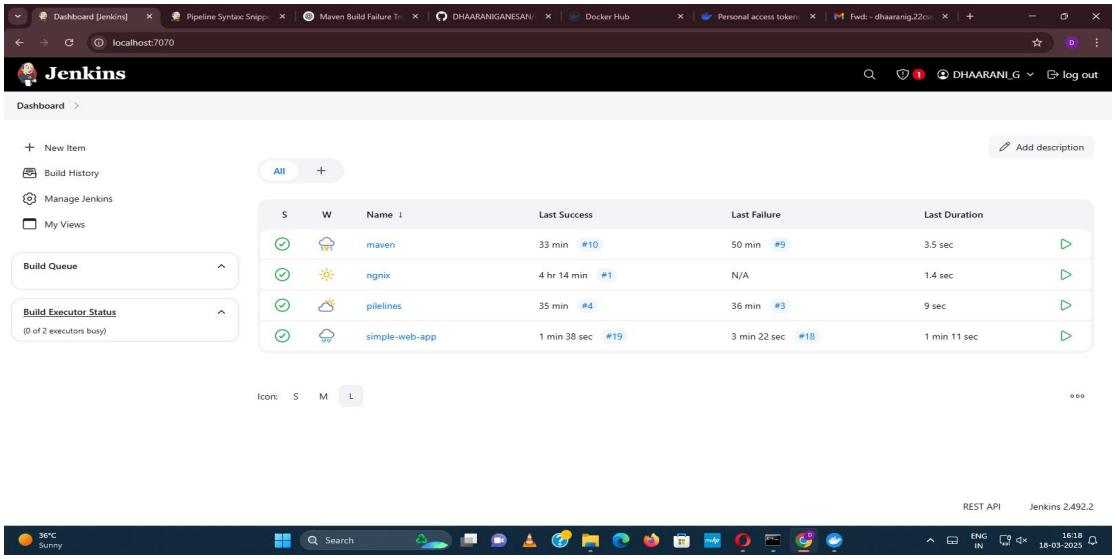


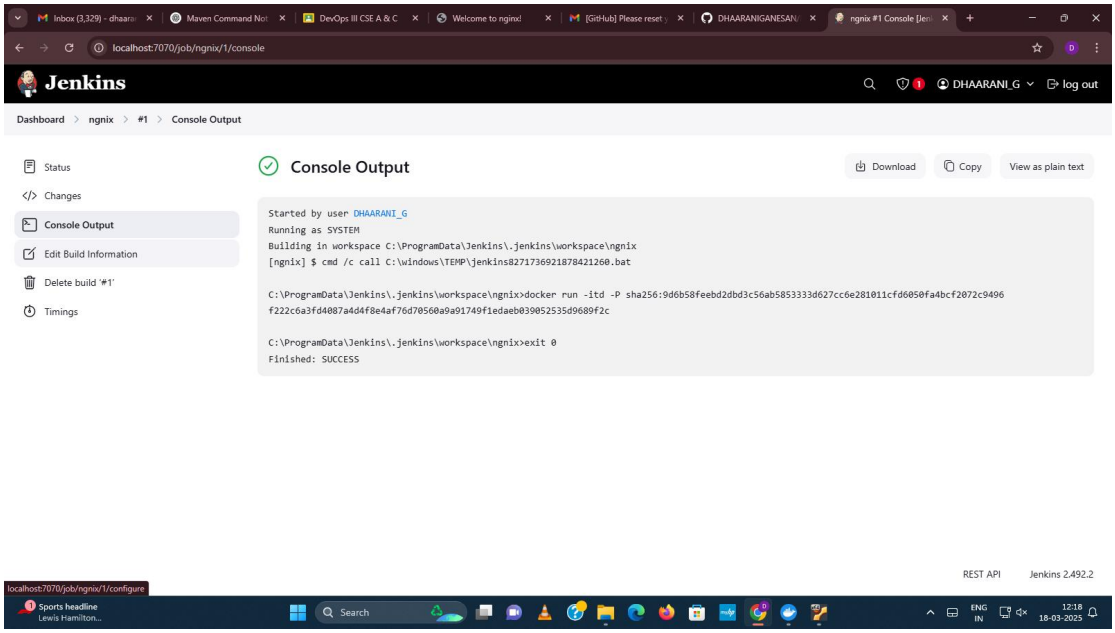




PIPELINE
BUILD:







ADVANTAGES OF JENKINS:

- It is an open-source tool.
- It is free of cost.
- It does not require additional installations or components. Means it is easy to install.
- Easily configurable.
- It supports 1000 or more plugins to ease your work. If a plugin does not exist, you can write the script for it and share with community.

●It is built in java and hence it is portable.

●It is platform independent. It is available for all platforms and different operating systems. Like OS X, Windows, or Linux.

●Easy support since its open source and widely used.

●Jenkins also supports cloud-based architecture so that we can deploy Jenkins in cloud-based platforms.